

42 inch Plasma TV Operating Instructions

Model No.: AR4200

For assistance, please call: 1-800-619-3848

Before connecting, operating or adjusting this product, please read these instructions completely. Please keep this manual for future reference

Important Information	1
Important Safety Precautions	2
Preparations	5
Using the Remote Control	
Batteries for the Remote Control	
Power connection	
Speaker connection	
Antenna Connection	7
Identification of Controls	8
Main unit (front view)	8
Main unit (rear view)	
Remote Control	
Connections	
Cautions before connecting	
Connect a VCR	
Connect a Camcorder	
Connect a DVD player	
Connect a DTV receiver	
Connect a PC	
Connect a VCR (for recording) or external amplifier	.17
Turning the Unit On and Off	
Memorizing the Channels	
Selecting the Signal Source	
Storing Channels in Memory Automatically	
Setting Auto Fine Tune (AFT)	
Manual Fine Tuning	
Adding and Erasing Channels	.20
Basic Operations	.21
Changing Channels	.21
Adjusting the Volume	.21
Select input source signal	.22
Selecting a MENU language	.22
Setting Channel Options	.23
Editing Channel Label	.23
Setting Picture	.24
Customizing the Picture	.24
Using the Preset Picture Mode	
Setting System	.25
Setting the Menu Background	
Setting Sleep Timer	
Changing Screen Options	
Changing the Scaling mode of Image	
Freezing the Picture	
Changing the Position of the Image	
Using Digital Pan and Zoom	

Using the Preset Audio Mode 28 Customizing the Sound 28 Adjusting the Hadphone Volume 28 Choosing a Multi-Channel Sound (MTS) Soundtrack 29 Using the Auto Volume 29 Changing Screen Layout 30 Selecting Screen Layout 30 PIP 31 Split Screen 31 POP3 31 Grid 31 PIP Operations 32 Viewing the Picture-in-Picture 32 Swap the Contents of the PIP Image and Main Image 32 Changing the Position of the PIP frame 33 Adjusting the Size of PIP Frame 33 Adjusting the Note and Frequency 34 Adjusting the Phase and Frequency 34 Adjusting the Position of Image 35 Displaying the Position of Image 35 Changing the Scaling mode of Image 36 Changing the Scal	Setting Sound	28
Adjusting the Headphone Volume 28 Choosing a Mulfi-Channel Sound (MTS) Soundtrack 29 Using the Auto Volume 29 Changing Screen Layout 30 Selecting Screen Layout 30 PIP 31 Split Screen 31 POP3 31 Grid 31 POP4 31 Grid 32 Viewing the Picture-in-Picture 32 Swap the Contents of the PIP Image and Main Image 32 Changing the Position of the PIP Frame 33 Adjusting the Size of PIP Frame 33 Adjusting the Picture and Frequency 34 Adjusting the Picture Automatically 34 Adjusting the Position of Image 35 Displaying the Information 35 Displaying the Information 35 Displaying the Information 36 Adjusting the Position of Image 36 Changing the Scaling mode of Image 36 Changing the Scaling mode of Image 36 Changing the Information 35 Displaying the Information 36 <t< td=""><td>Using the Preset Audio Mode</td><td>28</td></t<>	Using the Preset Audio Mode	28
Choosing a Multi-Channel Sound (MTS) Soundtrack.29Using the Auto Volume29Changing Screen Layout30Selecting Screen Layout30PIP31Split Screen31POP331Grid31PIP Operations32Viewing the Picture-in-Picture.32Swap the Contents of the PIP Image and Main Image32Changing the Position of the PIP Frame33Adjusting the Size of PIP Frame33Adjusting the Size of PIP Frame34Adjusting the Position of Image35Changing the Position of Image35Schanging the Position of Image35Adjusting the Phase and Frequency.34Adjusting the Phase and Frequency.34Adjusting the Position of Image35Displaying the Information35Adjusting the Position of Image36Changing the Scaling mode of Image36Changing the Scaling mode of Image36Adjusting the Position of Image36Adjusting Image width and height.36Viewing Closed Captions37Setting Image width and height.37Setting Image width and height.38V-CHIP38Accessing the V-CHIP Menu40Adjusting the Password40Adjusting the Positon of Image34Accessing the V-CHIP Menu40Adjusting the Password40Adjusting the Rosition of Image38Viewing Closed Caption <t< td=""><td>0</td><td></td></t<>	0	
Using the Auto Volume29Changing Screen Layout30Selecting Screen Layout30PIP31Split Screen31Grid31POP331Grid31PiP Operations32Viewing the Picture-in-Picture32Swap the Contents of the PIP Image and Main Image32Changing the Position of the PIP Frame33Adjusting the Size of PIP Frame33Adjusting the Position of the PIP Frame34Adjusting the Phase and Frequency34Adjusting the Picture Automatically34Changing the Position of Image35Changing the Position of Image35Adjusting the Scaling mode of Image36Changing the Scaling mode of Image36Adjusting Image width and height36Viewing Closed Caption37Setting Closed Caption37Setting the Background of Closed Caption37Setting the Background of Closed Caption37Adjusting the Password40Adjusting the Password40Adjusting the TV Rating41Troubleshooting41Troubleshooting41Specifications43	Adjusting the Headphone Volume	28
Changing Screen Layout		
Selecting Screen Layout	Using the Auto Volume	29
PIP 31 Split Screen 31 POP3 31 Grid 31 PIP Operations 32 Viewing the Picture-in-Picture 32 Swap the Contents of the PIP Image and Main Image 32 Changing the Position of the PIP Frame 33 Adjusting the Size of PIP Frame 33 Adjusting Picture 34 Adjusting the Phase and Frequency 34 Adjusting the Phase and Frequency 34 Adjusting the Position of Image 35 Changing the Scaling mode of Image 35 Displaying the Information 35 Adjusting Ine Position of Image 36 Changing the Scaling mode of Image 36 Changing the Scaling mode of Image 36 Adjusting Image width and height 36 Viewing Closed Captions 37 Setting Closed Caption 37 Setting the Background of Closed Caption 37 Accessing the V-CHIP Menu 40 Changing the Possword 40 Adjusting the Move Rating 41 Adjusting the Rossword 40 <td>Changing Screen Layout</td> <td>30</td>	Changing Screen Layout	30
Split Screen 31 POP3 31 Grid 31 Grid 31 PIP Operations 32 Viewing the Picture-in-Picture 32 Swap the Contents of the PIP Image and Main Image 32 Changing the Position of the PIP Frame 33 Adjusting the Size of PIP Frame 33 Adjusting the Size of PIP Frame 33 Adjusting the Phase and Frequency 34 Adjusting the Phase and Frequency 34 Adjusting the Position of Image 35 Changing the Scaling mode of Image 35 Displaying the Information 35 Adjustiment in YPbr Mode 36 Changing the Scaling mode of Image 36 Changing the Position of Closed Caption 37 Setting Closed Captions 37 Setting the Background of Closed Caption 37 Acjust		
POP3 31 Grid 31 PIP Operations 32 Viewing the Picture-in-Picture 32 Swap the Contents of the PIP Image and Main Image 32 Changing the Position of the PIP Frame 33 Adjusting the Size of PIP Frame 33 Adjusting the Size of PIP Frame 33 Adjusting the Phase and Frequency 34 Adjusting the Phase and Frequency 34 Adjusting the Position of Image 35 Changing the Scaling mode of Image 35 Displaying the Information 35 Displaying the Scaling mode of Image 36 Changing the Scaling mode of Image 36 Viewing C		
Grid	·	
PIP Operations		
Viewing the Picture-in-Picture.32Swap the Contents of the PIP Image and Main Image32Changing the Position of the PIP Frame.33Adjusting the Size of PIP Frame33Adjusting the Size of PIP Frame34Adjusting Picture34Adjusting the Phase and Frequency.34Adjusting the Picture Automatically34Changing the Scaling mode of Image35Changing the Position of Image35Displaying the Information35Adjustment in YPbPr Mode36Changing the Scaling mode of Image36Changing the Scaling mode of Image36Changing the Scaling mode of Image36Adjusting Image width and height36Viewing Closed Caption37Setting Closed Caption37Setting the Background of Closed Caption37Adjusting V-CHIP Settings38V-CHIP38Accessing the V-CHIP Menu40Changing the Password40Adjusting the TV Rating41Adjusting the TV Rating41Aroubleshooting42Specifications43		
Swap the Contents of the PIP Image and Main Image 32 Changing the Position of the PIP Frame 33 Adjusting the Size of PIP Frame 33 Adjustment in PC (VGA) Mode 34 Adjusting Picture 34 Adjusting the Phase and Frequency. 34 Adjusting the Phase and Frequency. 34 Adjusting the Picture Automatically 34 Changing the Scaling mode of Image 35 Changing the Position of Image 35 Displaying the Information 35 Adjusting the Position of Image 36 Changing the Scaling mode of Image 36 Changing the Position of Image 36 Changing the Position of Image 36 Changing the Position of Image 36 Changing the Scaling mode of Image 36 Viewing Closed Captions 37 Setting Closed Caption 37 Setting the Background of Closed Caption 37 <td>•</td> <td></td>	•	
Changing the Position of the PIP Frame33Adjusting the Size of PIP Frame33Adjusting the Size of PIP Frame34Adjusting Picture34Adjusting Picture34Adjusting the Phase and Frequency34Adjusting the Picture Automatically34Changing the Scaling mode of Image35Changing the Position of Image35Displaying the Information35Adjusting the Position of Image36Changing the Scaling mode of Image36Changing the Background of Closed Caption37Setting Closed Caption37Setting the Background of Closed Caption37Adjusting V-CHIP Settings38V-CHIP38Accessing the V-CHIP Menu40Changing the Password40Adjusting the Movie Rating41Adjusting the IV Rating41Adjusting the IV Rating41Specifications43	8	
Adjusting the Size of PIP Frame 33 Adjustment in PC (VGA) Mode 34 Adjusting Picture 34 Adjusting the Phase and Frequency 34 Adjusting the Picture Automatically 34 Adjusting the Scaling mode of Image 35 Changing the Scaling mode of Image 35 Displaying the Information 35 Adjustment in YPbPr Mode 36 Changing the Scaling mode of Image 36 Changing the Position of Image 36 Changing the Scaling mode of Image 36 Viewing Closed Caption of Image 37 Setting Closed Caption 37 Setting the Background of Closed Caption 37 Setting the Background of Closed Caption 37 Accessing the V-CHIP Menu 40 Changing the Movie Rating 41		
Adjustment in PC (VGA) Mode 34 Adjusting Picture 34 Adjusting the Phase and Frequency. 34 Adjusting the Picture Automatically 34 Adjusting the Scaling mode of Image 35 Changing the Scaling mode of Image 35 Displaying the Information 35 Adjustment in YPbPr Mode 36 Changing the Scaling mode of Image 36 Changing the Scaling mode of Image 36 Changing the Scaling mode of Image 36 Changing the Position of Image 36 Changing the Scaling mode of Image 36 Changing the Scaling mode of Image 36 Changing the Position of Image 36 Viewing Closed Caption of Image 36 Viewing Closed Caption 37 Setting Image width and height 36 Viewing Closed Caption 37 Setting the Background of Closed Caption 37 Setting the Background of Closed Caption 37 Acjusting the V-CHIP Menu 38 Accessing the V-CHIP Menu 40 Changing the Movie Rating 41 Adjusting the TV Rati		
Adjusting Picture 34 Adjusting the Phase and Frequency. 34 Adjusting the Picture Automatically 34 Changing the Scaling mode of Image 35 Changing the Position of Image 35 Displaying the Information 35 Adjustment in YPbPr Mode 36 Changing the Scaling mode of Image 36 Changing the Scaling mode of Image 36 Changing the Scaling mode of Image 36 Changing the Position of Image 36 Changing the Position of Image 36 Viewing Closed Caption of Image 36 Viewing Closed Caption 37 Setting the Background of Closed Caption 37 Setting the Background of Closed Caption 37 Adjusting V-CHIP Settings 38 V-CHIP 38 Accessing the V-CHIP Menu 40 Changing the Password 40 Adjusting the Movie Rating 41 Adjusting the TV Rating 41 Troubleshooting 42 Specifications 43		
Adjusting the Phase and Frequency		
Adjusting the Picture Automatically 34 Changing the Scaling mode of Image 35 Changing the Position of Image 35 Displaying the Information 35 Adjustment in YPbPr Mode 36 Changing the Scaling mode of Image 36 Changing the Scaling mode of Image 36 Changing the Position of Image 36 Adjusting Image width and height 36 Viewing Closed Captions 37 Setting the Background of Closed Caption 37 Setting the Background of Closed Caption 37 Adjusting V-CHIP Settings 38 V-CHIP. 38 Accessing the V-CHIP Menu 40 Changing the Password 40 Adjusting the Movie Rating 41 Adjusting the TV Rating 41 Aroubleshooting 42 Specifications 43		
Changing the Scaling mode of Image35Changing the Position of Image35Displaying the Information35Adjustment in YPbPr Mode36Changing the Scaling mode of Image36Changing the Position of Image36Adjusting Image width and height36Viewing Closed Captions37Setting Closed Caption37Setting the Background of Closed Caption37Adjusting V-CHIP Settings38V-CHIP38Accessing the V-CHIP Menu40Changing the Password40Adjusting the Novie Rating41Adjusting the TV Rating41Aroubleshooting42Specifications43		
Changing the Position of Image35Displaying the Information35Adjustment in YPbPr Mode36Changing the Scaling mode of Image36Changing the Position of Image36Adjusting Image width and height36Viewing Closed Captions37Setting Closed Caption37Setting the Background of Closed Caption37Adjusting V-CHIP Settings38V-CHIP38Accessing the V-CHIP Menu40Changing the Password40Adjusting the TV Rating41Adjusting the TV Rating41Specifications43		
Displaying the Information35Adjustment in YPbPr Mode36Changing the Scaling mode of Image36Changing the Position of Image36Adjusting Image width and height36Viewing Closed Captions37Setting Closed Caption37Setting the Background of Closed Caption37Adjusting V-CHIP Settings38V-CHIP38Accessing the V-CHIP Menu40Changing the Password40Adjusting the TV Rating41Adjusting the TV Rating41Specifications43		
Adjustment in YPbPr Mode 36 Changing the Scaling mode of Image 36 Changing the Position of Image 36 Adjusting Image width and height 36 Viewing Closed Captions 37 Setting Closed Caption 37 Setting the Background of Closed Caption 37 Adjusting V-CHIP Settings 38 V-CHIP 38 Accessing the V-CHIP Menu 40 Changing the Password 40 Adjusting the Novie Rating 41 Adjusting the TV Rating 41 Aroubleshooting 42 Specifications 43		
Changing the Scaling mode of Image36Changing the Position of Image36Adjusting Image width and height36Viewing Closed Captions37Setting Closed Caption37Setting the Background of Closed Caption37Adjusting V-CHIP Settings38V-CHIP38Accessing the V-CHIP Menu40Changing the Password40Adjusting the Movie Rating41Adjusting the TV Rating41Troubleshooting42Specifications43	Displaying the Information	35
Changing the Position of Image	Adjustment in YPbPr Mode	36
Adjusting Image width and height36Viewing Closed Captions.37Setting Closed Caption.37Setting the Background of Closed Caption.37Adjusting V-CHIP Settings.38V-CHIP38Accessing the V-CHIP Menu.40Changing the Password.40Adjusting the Movie Rating.41Adjusting the TV Rating41Troubleshooting43	Changing the Scaling mode of Image	36
Viewing Closed Captions37Setting Closed Caption37Setting the Background of Closed Caption37Adjusting V-CHIP Settings38V-CHIP38Accessing the V-CHIP Menu40Changing the Password40Adjusting the Movie Rating41Adjusting the TV Rating41Troubleshooting42Specifications43	Changing the Position of Image	36
Setting Closed Caption37Setting the Background of Closed Caption37Adjusting V-CHIP Settings38V-CHIP.38Accessing the V-CHIP Menu40Changing the Password40Adjusting the Movie Rating41Adjusting the TV Rating.41Troubleshooting.42Specifications43	Adjusting Image width and height	36
Setting the Background of Closed Caption37Adjusting V-CHIP Settings38V-CHIP.38Accessing the V-CHIP Menu40Changing the Password40Adjusting the Movie Rating41Adjusting the TV Rating41Troubleshooting42Specifications43	Viewing Closed Captions	37
Adjusting V-CHIP Settings38V-CHIP38Accessing the V-CHIP Menu40Changing the Password40Adjusting the Movie Rating41Adjusting the TV Rating41Troubleshooting42Specifications43	Setting Closed Caption	37
Adjusting V-CHIP Settings38V-CHIP38Accessing the V-CHIP Menu40Changing the Password40Adjusting the Movie Rating41Adjusting the TV Rating41Troubleshooting42Specifications43	Setting the Background of Closed Caption	37
V-CHIP		
Accessing the V-CHIP Menu		
Changing the Password		
Adjusting the Movie Rating		
Adjusting the TV Rating		
Troubleshooting		
Specifications		
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WARNING: TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPARATUS TO RAIN OR MOISTURE.



CAUTION-To reduce the risk of electric shock, do not perform any servicing other than that contained in the operating instructions The lightning flash with arrowhead symbol, within an equilateral triangle is intended to alert the user to the presence of uninsulated dangerous voltage within the product's enclosure that may be of sufficient magnitude to constitute a risk of electric shock to persons.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance (servicing) instructions in the literature accompanying the appliance.

"Note to CATV system installer: This reminder is provided to call the CATV system installer's attention to Article 820-40 of the National Electrical Code that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building, as close to the

This product utilizes tin-lead solder, and fluorescent lamp containing a small amount of mercury. Disposal of these materials may be regulated due to environmental considerations. For disposal or recycling information, please contact your local authorities or the Electronic Industries Alliance: www.eia.org

FCC STATEMENT

FCC Notice

PDP TV: A CLASS B digital device

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment.

This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

FCC CAUTION:

Pursuant to 47CFR, Part 15.21 of the FCC rules, any changes or modifications to this monitor not expressly approved by the manufacturer could cause harmful interference and would void the user's authority to operate this device.

WARNING: This is a CLASS B product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures to counter interference.

Important Safety Precautions

Electrical energy can perform many useful functions, but it can also cause personal injuries and property damage if improperly handled. This product has been engineered and manufactured with the highest priority on safety. But IMPROPER USE CAN RESULT IN POTENTIAL ELECTRICAL SHOCK OR FIRE HAZARD. In order to prevent potential danger, please observe the following instructions when installing, operating and cleaning the product. To ensure your safety and prolong the service life of your PDP TV product,

1. Read these instructions---All operating instructions must be read and understood before the product is operated.

2. Keep these instructions---These safety and operating instructions must be kept in a safe place for future reference.

3. Heed all warnings---All warnings on the product and in the instructions must be observed closely.

4. Follow all instructions ---- All operating instructions must be followed.

5. Do not use this apparatus near water---for example, near a bathtub, washbowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool, and the like.

Do not use immediately after moving from a low temperature to high temperature environment, as this causes condensation, which may result in fire, electric shock, or other hazards.

6. Clean only with dry cloth----Unplug this product from the wall outlet before cleaning. Do not use liquid cleaners or aerosol cleaners. Use a damp cloth for cleaning.

7. Ventilation---Do not block any ventilation openings. Install in accordance with the manufacturer instructions. The vents and other openings in the cabinet are designed for ventilation. Do not cover or block these vents and openings since insufficient ventilation can cause overheating and/or shorten the life of the product. Do not place the product on a bed, sofa, rug or other similar surface, since they can block ventilation; do not place the product is not designed for built-in installation; do not place the product in an enclosed place such as a bookcase or rack, unless proper ventilation is provided or the manufacturer's instructions are followed. 4" clearance on all sides and back are required

8.Heat sources---Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9.Grounding or Polarization---Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

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10.Power cord protection---Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11.Attachments---Only use attachments/accessories specified by the manufacturer. Do not use attachments not recommended by the manufacturer. Use of improper attachments can result in accidents.

Important Safety Precautions (continued)

12. Stand----Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. Do not place the product on an unstable trolley, stand, tripod or table. Placing the product on an unstable base can cause the product to fall, resulting inserious personal injuries as well as damage to the product. When mounting the product on a wall, be sure to follow the manufacturer's instructions. Use only the mounting hardware recommended by the manufacturer.

13.Careful move---When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over. Sudden stops, excessive force and uneven floor surfaces can cause the product to fall from the trolley.

14. Lightning---Unplug this apparatus during lightning storms or when unused for long periods of time.

For added protection for this television equipment during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the antenna. This will prevent damage to the equipment due to lightning and power-line surges.

15. Servicing---Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power-supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

16. Replacement parts---In case the product needs replacement parts, make sure that the service person uses replacement parts specified by the manufacturer, or those with the same characteristics and performance as the original parts. Use of unauthorized parts can result in fire, electric shock and/or other danger.

17.Overloading---Do not overload wall outlets, extension cords, or convenience receptacles on other equipment as this can result in a risk of fire or electric shock.

18.Entering of objects and liquids---Never insert an object into the product through vents or openings. High voltage flows in the product, and inserting an object can cause electric shock and/or short internal parts. For the same reason, do not spill water or liquid on the product.

19.Damage requiring service---If any of the following conditions occurs, unplug the power cord from the AC outlet, and request a qualified service person to perform repairs.

a. When the power cord or plug is damaged.

b. When a liquid is spilled on the product or when objects have fallen into the product.

c. When the product has been exposed to rain or water.

d. When the product does not operate properly as described in the operating instructions.

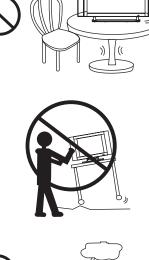
Do not touch the controls other than those described in the operating instructions. Improper adjustment of controls not described in the instructions can cause damage, which often requires extensive adjustment work by a qualified technician.

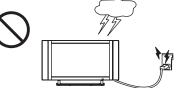
e. If the product has been dropped or the cabinet has been damaged in any way.

f. When the product displays an abnormal condition or exhibits a distinct change in performance. Any noticeable abnormality in the product indicates that the product needs servicing.

20.Safety checks---Upon completion of service or repair work, request the service technician to perform safety checks to ensure that the product is in proper operating condition.

21.Wall or ceiling mounting---When mounting the product on a wall or ceiling, be sure to install the product according to the method recommended by the manufacturer. This is a safety feature.





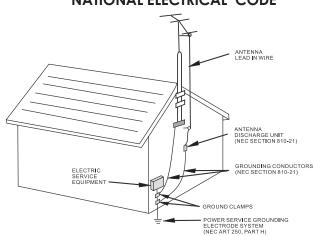
Important Safety Precautions (continued)

22. Power source---This product is intended to be supplied by a listed power supply indicated on the marking label. If you are not sure of the type of power supply to your home, consult your product dealer or local power company. For added protection for this product during a lightning storm, or when it is left unattended and unused for long periods of time, unplug it from the wall outlet and disconnect the cable system. This will prevent damage to the product due to lightning and power line surges. When the unit has to be used with another power supply voltage, the power cable must be changed. Consult your product dealer. The socket outlet should be installed near the equipment and easily accessible. Use only the power cord designated by our dealer to ensure safety and EMC. When connecting other products such as VCRs and personal computers, you should turn off the power of the unit for protection against electric shock.

23.Panel protection---The PDP panel used in this product is made of glass. Therefore, it can break when the product is dropped or impacted upon by other objects. Be careful not to be injured by broken glass pieces in case the PDP panel breaks.

24.Pixel defect---The PDP panel is a very high technology product, giving you finely detailed pictures. Occasionally, a few non-active pixels may appear on the screen as a fixed point of blue, green or red. Please note that this does not affect the performance of your product.

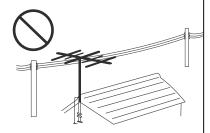
If an outside antenna is connected to the television equipment, be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code provides information with respect to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



EXAMPLE OF ANTENNA GROUNDING AS PER NATIONAL ELECTRICAL CODE

NEC-NATIONAL ELECTRICAL CODE

An outside antenna system should not be located in the vicinity of overhead power lines or other electric light or power circuits, or where it can collide with such power lines or circuits. When installing an outside antenna system, extreme care should be taken to keep from touching such power lines or circuits, as contact with them might be fatal.



Preparations

Using the Remote Control

- Use the remote control by pointing it towards the remote sensor window of the set. Objects between the remote control and sensor window may prevent proper operation.
- **Note**: the illustration is for your reference only, the remote sensor may locate differently with different model.

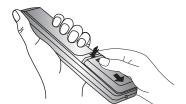
Cautions regarding use of remote control

- Do not expose the remote control to shock. In addition, do not expose the remote control to liquids, and do not place in an area with high humidity.
- Do not install or place the remote control under direct sunlight. The heat may cause deformation of the unit.
- The remote control may not work properly if the remote sensor window of the main unit is under direct sunlight or strong lighting. In such a case, change the angle of the lighting or PDP TV set, or operate the remote control closer to the remote sensor window.

Batteries for the Remote Control

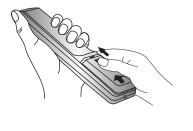
If the remote control fails to operate the PDP TV functions, replace the batteries in the remote control.

Open the battery cover.



- (Slide the cover while pressing down.)
- 2 Insert two size-AAA batteries.
- (Place the batteries with their terminals corresponding to the (+) and (-) indications in the battery

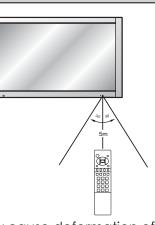
3 Replace the cover and slide in reverse until the lock snaps.

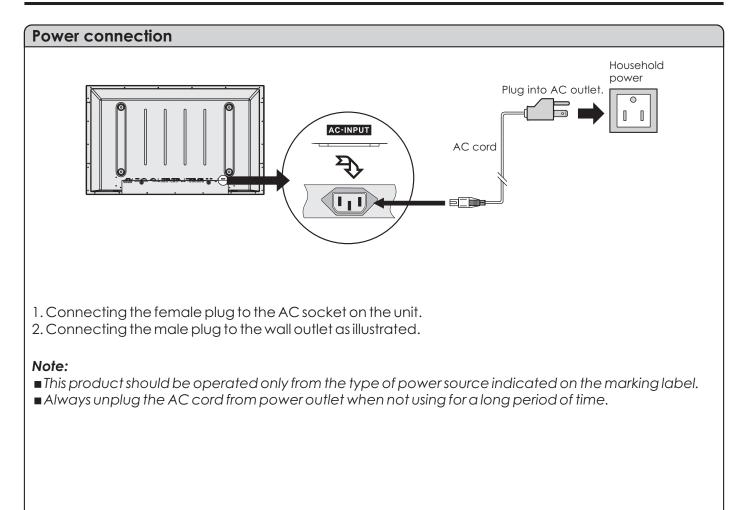


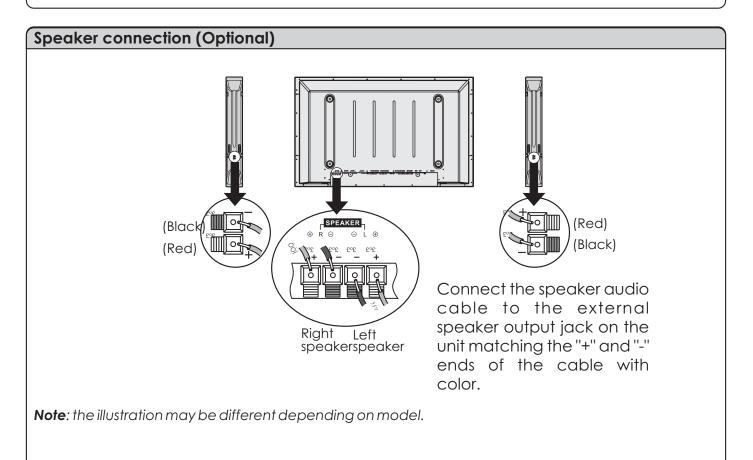
Precaution on battery use

Improper use of batteries can result in a leakage of chemicals and/or explosion. Be sure to follow the instructions below.

- Place batteries with their terminals corresponding to the (+) and (-) indications.
- Different types of batteries have different characteristics. Do not mix batteries of different types.
- Do not mix old and new batteries. Mixing old and new batteries can shorten the life of new batteries and/or cause old batteries to leak chemicals.
- Remove batteries as soon as they are non-operable. Chemicals that leak from batteries can cause a rash. If chemical leakage is found, wipe with a cloth.
- The batteries supplied with the product may have a shorter life expectancy due to storage conditions.
- If the remote control is not used for an extended period of time, remove the batteries from the remote control.







Antenna Connection

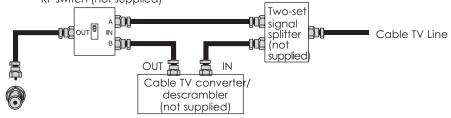
CABLE TV (CATV) CONNECTION

A 75-ohm coaxial cable connector is built into the set for easy hookup. When connecting the 75- ohm coaxial cable to the set, screw the 75-ohm cable to the ANT. Terminal.

Some cable TV companies offer "premium pay channels". Since the signals of these premium pay channels are scrambled, a cable TV converter/descrambler is generally provided to the subscriber by the cable TV company.

This converter/descrambler is necessary for normal viewing of the scrambled channels. For more specific instructions on installing cable TV, consult your cable TV company. One possible method of utilizing the converter/descrambler provided by your cable TV company is explained below. Please note: An RF switch provided with two inputs (A and B) is required (not supplied).

RF switch (not supplied)



"A" position on the RF switch (not supplied) : You can view all unscrambled channels by using the TV's channel keys.

"B" position on the RF switch (not supplied) : You can view the scrambled channels via the converter/descrambler by using the converter's channel keys.

Antenna connection (Continued)

ANTENNAS

The antenna requirements for good color television reception are more important than those for black & white television reception. For this reason, a good quality outdoor antenna is strongly recommended. The following is a brief explanation of the type of connections that are provided with the various antenna systems.

1. A 75-ohm system is generally a round cable with F-type connector that can easily be attached to a terminal without tools (not supplied).

2. A 300-ohm system is a flat "twin-lead" cable that can be attached to a 75-ohm terminal through a 300-75-ohm

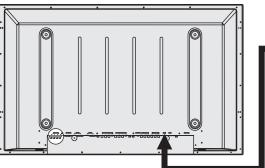
OUTDOOR ANTENNA CONNECTION

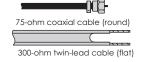
Use one of the following two diagrams if you connect an outdoor antenna.

A: Using a VHF/UHF combination outdoor antenna.

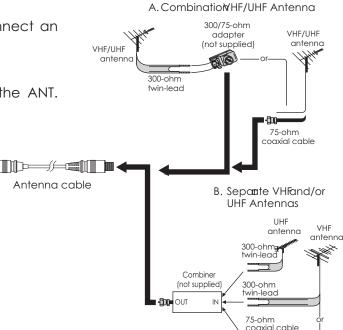
B: Using separate VHF and/or UHF outdoor antennas.

Connect the outdoor antenna cable lead-in to the ANT. terminal on the rear of the TV set.





F-type conne

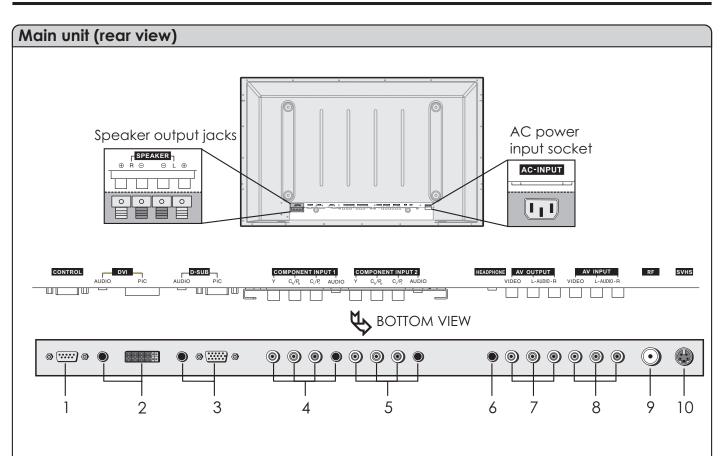


-800=

Identification of Controls

Main unit (front view)
Image: state
$\bigcirc \qquad \qquad$
POWER SWITCH POWER ON/STANDBY CHANNEL MENU DOWN/UP VOLUME DOWN/UP
 POWER Press this button to turn the unit ON from STANDBY mode. Press it again to turn the set back to STANDBY. MENU Press this button to access the MENU main page. Volume < / > Press the VOL > or VOL < button to directly increase or decrease the sound volume level. In OSD Menu, press these buttons to adjust the value or setting of each item Channel < / Press these two buttons to directly change the TV channel. In OSD Menu, press these buttons to choose the OSD items. Power Switch: Press to remove power from the unit
POWER Ů , VOL (/), CH ∧ / → and MENU on the main unit have the same functions as the corresponding buttons on the remote control.

Identification of Controls (continued)



1. RS232 terminals

For service use only. The user cannot operate the unit through the RS232 terminals.

2. DVI input /Audio in

Receives the digital video/audio signals from a set top box.

- 3. VGA input /Audio in Connect to the VGA/audio output jacks on your PC.
- Component inputs 1 (Y, Pb/Cb, Pr/Cr, Audio) Connect to the audio and component output jacks of a DVD player or Set-Top Box.

5. Component inputs 2 (Y, Pb/Cb, Pr/Cr, Audio) Connect to the audio and component output jacks of a DVD player or Set-Top Box.

- 6. Headphone jack
- 7. AV outputs (Video, Audio L, R)

Connect to the VCR input jacks to record programs.

8. AV inputs (Video, Audio L, R)

Receive video/audio signals from external sources such as VCR or DVD player.

9. Antenna input

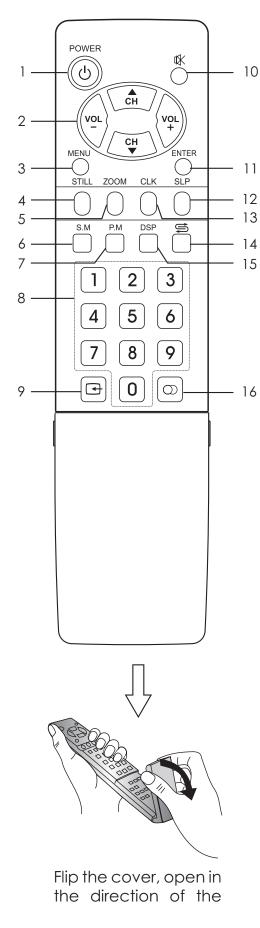
Allows you to connect cable or outdoor antenna.

10. S-Video input

Receive a S-Video signal from external source such as VCR or DVD player. (Note: S-Video Shares audio input with AV input.

Identification of Controls (continued)

Remote Control



- 1. POWERU
- Turn the unit on or standby
- 2. CH▲/▼,VOL+/-CH▲/▼---Use to switch channels; VOL+/----Use to adjust volume; In MENU operation, use CH▲/▼ to select menu item and VOL+/- to adjust selected item
- 3. MENU
 - To access the MENU main page
- 4. STILL
 - To freeze current picture
- 5. ZOOM
 - To go into ZOOM or PAN mode
- 6. S.M
 - To access sound mode select menu
 - 7. P.M
 - To access picture mode select menu
 - 8. 0~9 digit buttons
 - Direct channel select
- 9. SOURCE → To access source select menu
- 10. MUTE 🕸
 - Sound mute
 - 11. ENTER

To confirm your operation or setting or access the submenu

- 12. SLP
 - To access Sleep timer setting menu
- 13. CLK
 - To access gurrent time setting menu
- 14. RETURN

To quickly jump between current channel and last selected channel.

15. DSP

To display channel status or signal information

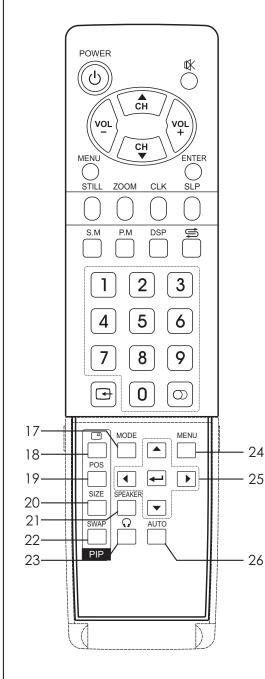
16. MTS

To select STEREO, SAP or MONO

Note: Remote layout subject to change

Identification of Controls (continued)

Remote Control



17. MODE

To access screen layout select menu

- 18. PIP displa@
- To activate picture in picture
- 19. POS

To access PIP frame position select menu

- 20. SIZE
 - To access PIP frame size adjusting menu
- 21. SPEAKER

In multi-picture mode, press this button to output the sound of the selected picture frame from speaker

22. SWAP

To exchange PIP and MAIN PICTURE source

23. HEADPHONE

In multi-picture mode, press this button to output the sound of the selected picture frame from headphone 24. MENU

To access the MENU main page

- 25. ▲ ▼ ◀ ▶←
 - To move upward or downward in menu operation; To adjust zoom rate in ZOOM mode and pan picture in PAN mode; To select picture frame in multi-picture mode, the selected picture frame displays with a green

border;

- To move left or right in menu operation; To adjust selected menu item in menu operation; To pan picture in PAN mode;
 - : To confirm your operation or setting or to access a submenu.

26. AUTO

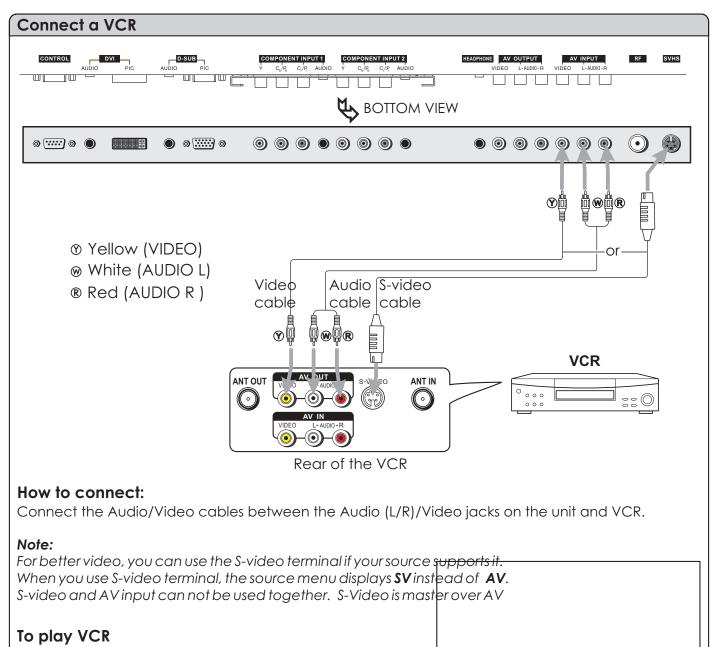
To rectify the picture automatically in VGA mode

Note: Remote layout subject to change

Connections

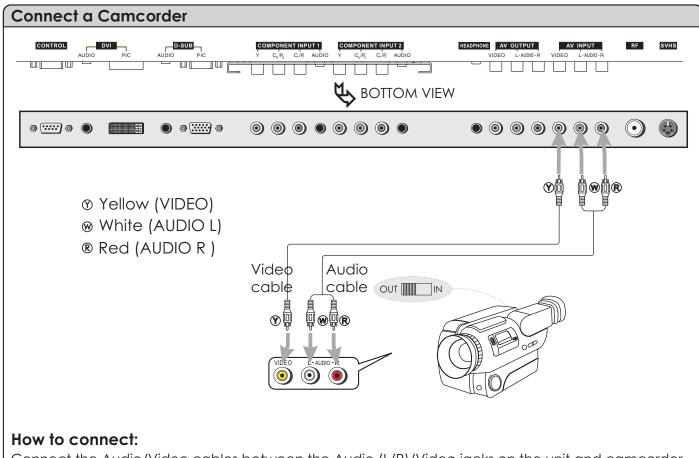
Cautions before connecting

- Carefully check the terminals for position and type before making any connections.
- The illustration of the external equipment may be different depending on your model.
- Loose connectors can result in image or color problems. Make sure that all connectors are securely inserted into their terminals.
- Refer to the user manual of the external device as well.
- When connecting an external device, turn the power off on the panel to avoid any issues.



- 1. Turn on your PDP TV , press **SOURCE** button on the remote control.
- 2. Press $\ensuremath{\text{VOL+/-}}$ to select $\ensuremath{\text{AV}}$ (VIDEO) and press $\ensuremath{\text{ENTER}}$ to

source	А	D	C1	C2	AV	ΤV
		-	VIC	EC)	-



Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and camcorder.

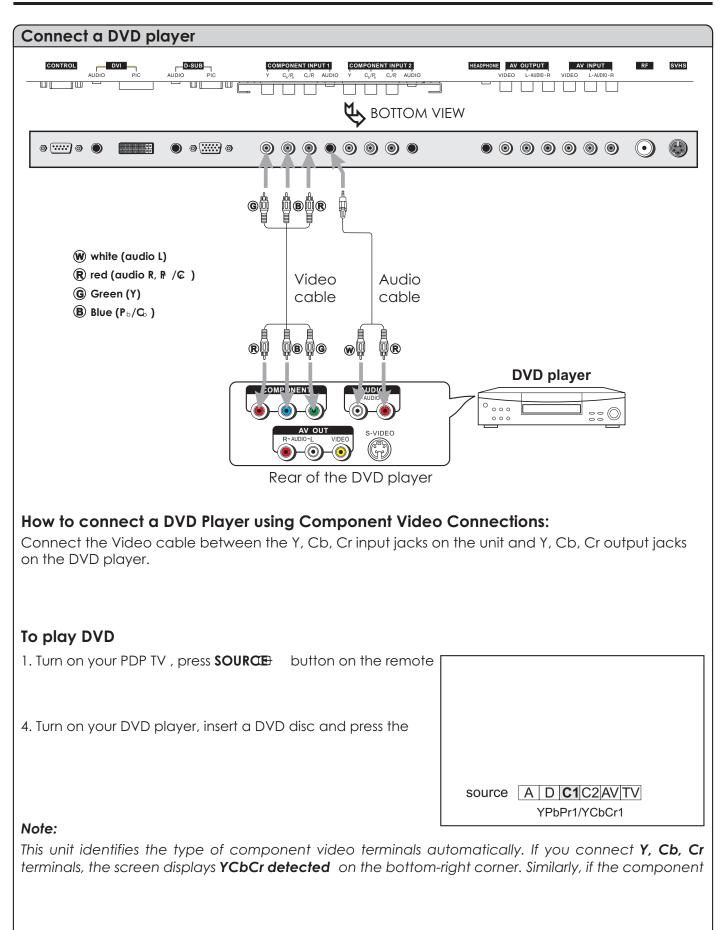
To playback Camcorder

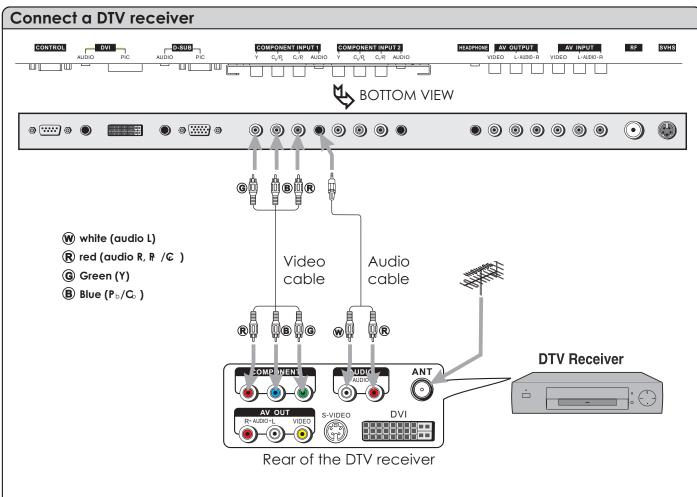
- 1. Turn on your PDP TV , press **SOURCE** button on the remote control.
- 2. Press VOL+/- to select AV (VIDEO) and press ENTER to confirm.
- 3. Turn on your camcorder and set it to output mode. (For details, refer to your camcorder user

Note:

The operations of the camcorder may be different and is

source	A D C1C2AV TV VIDEO	





How to connect:

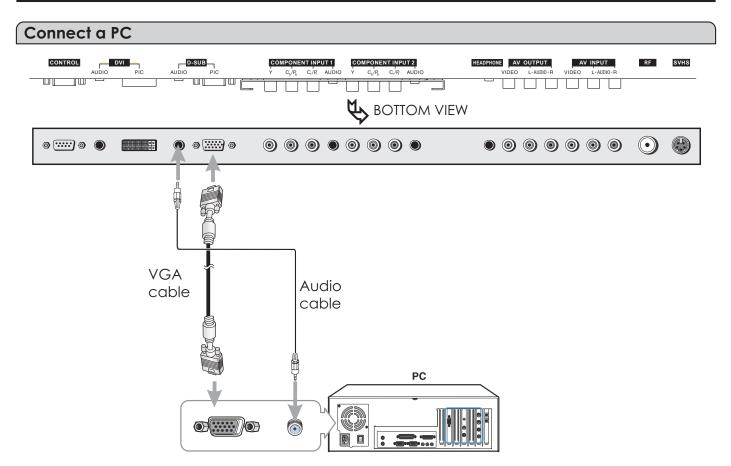
Connect the cable or antenna to the antenna input jack on the DTV receiver.

Connect the Video cable between the Y, Pb, Pr input jacks on the unit and Y, Pb, Pr output jacks on the DTV receiver .

To Watch DTV

- 1. Turn on your PDP TV , press **SOURCE** button on the remote control.
- 2. Press VOL+/- to select C1(YPbPr1/YCbCr1) or C2(YPbPr2/YCbCr2).

source A D C1 C2 AV TV YPbPr1/YCbCr1	

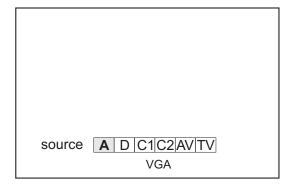


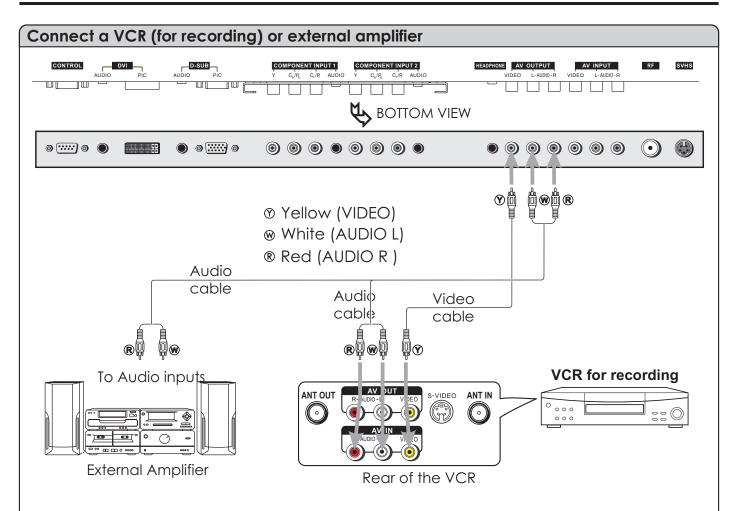
How to connect:

Connect a VGA cable between the VGA jack on the PC and the VGA input jack on the unit. Connect an Audio cable between the AUDIO output on the PC and AUDIO input jack on the unit.

To Watch the PC screen

- 1. Turn on your PDP TV , press **SOURCE** button on the remote control.
- 2. Press VOL+/- to select A (VGA).
- 3. Press **ENTER** to confirm.





How to connect:

Connect the Audio/Video cables between the Audio (L/R)/Video jacks on the unit and VCR.

- 0[-

Connect the Audio cables between the Audio (L/R) jacks on the unit and external amplifier.

To record program

- 1. Turn on your PDP TV, select AV or TV source you wish to record.
- 2. Turn on your VCR, insert a videotape for recording.
- 3. Press the Record button to begin recording.

To enjoy high-quality sound through an external amplifier

- 1. Turn on your PDP TV, select AV or TV source.
- 2. Turn the main volume of the amplifier to minimum.
- 3. Turn on the amplifier and adjust for a proper volume.

Note:

The operations of the amplifier may be different depending on model. Please read the user manual of your amplifier to confirm proper operation.

The AV output terminals output audio/video signal inputted from Antenna input or AV inputs only.

Turning the Unit On and Off

Turning the Unit On and Off

Turning On

Insert the power cord into the wall outlet. Press the Power Switch on the unit. Press the **Powet** button on the remote control.

Turning Off

With the power on, Press the **Power** button on the remote control to turn off the unit temporarily. If you want to cut off

Note:

ტ

Viewing the Menus and Displays

Your PDP TV has a simple, easy-to-use menu system that appears on the screen. This system makes it convenient and fast to use features on the unit.

Viewing the Menus

With the power on, press the **MENU** button on the remote

2 Use the CH ▲ / ▼ to select menu item. Use VOL+/- to adjust value or setting of each item. Use ENTER to confirm or access items of menu.

On-screen menu will disappear from the screen automatically after about 15 seconds, or you can press

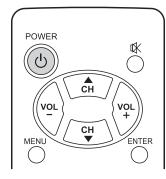
Note:

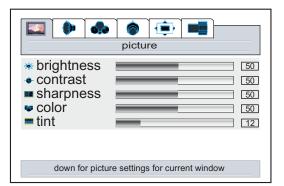
To clearly introduce the menu operations , this operation

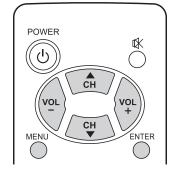
3 In MENU operations, the /- buttons have the same function with the CH/- buttons, the /- buttons have the same function with the VOL+/- buttons, the button

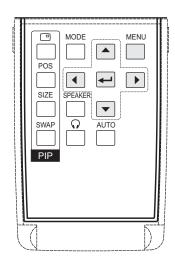
Displaying Status Information

Press the DSP button on the remote control, the unit will display current status information such as









antenna cable

off

off

on

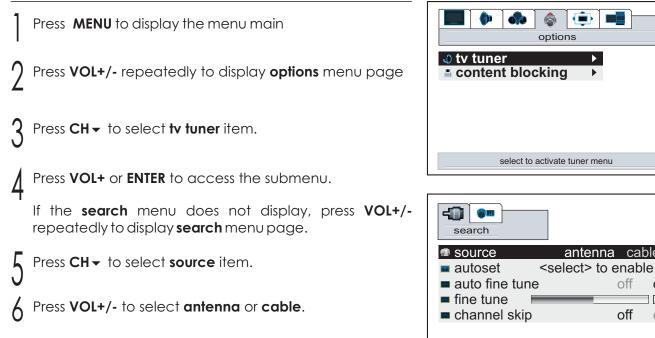
50

on

Your PDP TV can memorize and store all of the available channels for both antenna and cable channels. After the available channels are memorized, use CH / to scan through the available

Selecting the Signal Source

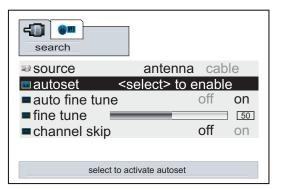
Before your PDP TV can memorize the available channels, you must specify the type of signal source that is connected



If you are connected to an antenna, please select antenna (the selected item displays in green). If you connect cable, please select cable.

Storing Channels in Memory Automatically

Repeat steps 1~4 in [Selecting the Signal Source] to



right/left to change source

Press ENTER to store channels in memory automatically. 3

The unit will begin memorizing all of the available channels. Note:

The process of auto memory will be stopped if you press the MENU button.



Setting Auto Fine Tune (AFT)

- Repeat steps 1~4 in [Selecting the Signal Source] to display search menu page.
- 2 Press CH repeatedly to select auto fine tune item.
- 3 Press VOL+/- to select on or off.

When the AFT is set to On, the unit will automatically tune the program frequency to provide the best possible picture and sound.

Manual Fine Tuning

- Repeat steps 1~4 in [Selecting the Signal Source] to display search menu page.
- 3 Press VOL+/- to fine tune till the best possible picture and sound are obtained.

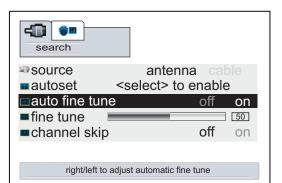
If you fine tune a program manually, the **auto fine tune** item will be turned to **off** automatically.

Adding and Erasing Channels

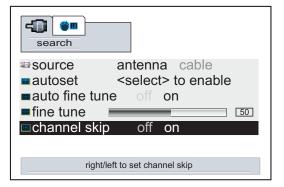
- Use **number buttons** to directly select a channel that will be added or erased.
- 2 Repeat steps 1~4 in [Selecting the Signal Source] to display search menu page.
 - Press **CH** repeatedly to select **channel skip** item.
- A Press VOL+/- to select on or off.

When the item is set to on, the selected channel will be erased. When the item is set to off, the selected channel will be added.

The erased channels can not be selected by using the $CH \land / \checkmark$ buttons unless you use **number buttons** to input channel number directly.



search	
source	antenna cable
■autoset <s< td=""><td>select> to enable</td></s<>	select> to enable
auto fine tune	off on
fine tune	50
channel skip	off on
right/left to a	adjust fine tuning



Changing Channels

Using the Channel Buttons (CH - or CH -)

Press the $CH \land$ or $CH \checkmark$ to change channels. When you press the $CH \land$ or $CH \checkmark$, the unit changes channels in sequence. You will see all the channels that the unit has memorized. You will not see channels that were erased, not memorized or unavailable.

Direct Accessing Channels

Press the number buttons to go directly to a channel. To select a one-digit channel: Input the channel using the **0-9 number buttons** directly and then press **ENTER** or wait for 3 seconds. To select a two-digit channel: Input the channel using the **0-9 number buttons** directly and then press **ENTER** or wait for 3 seconds. To select a three-digit channel:

Note:

Be sure to enter the channel within 3 seconds. When you use the number buttons, You may directly select channels that were erased.

Using the RETURN 🖘 button

Press this button to switch between the current channel and the previous channel.

Adjusting the Volume

Using the volume buttons (VOL-and VOL+)

Press the VOL+or VOL- to increase or decrease the volume.

Using the Mute

Using the MUTE 🕸 button

At any time, you can temporarily turn off the sound using the **MUTE** I button.

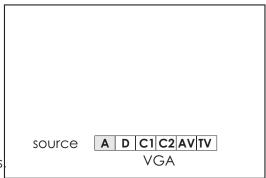
Press the **MUTE** ${}_{\mathbb{K}}$ button and the sound turns off.

2 To turn mute off, press the **MUTE** \ll button again, or simply press either the **VOL** - or **VOL**+.

Select input source signal

Using the SOURCE 🕑 button

Press the **SOURCE** button to access **source** menu. Press VOL+ or VOL- to select a desired input channel. Press ENTER to confirm and the unit display signal from the selected input channel. A-----VGA, select signal from VGA (15-pin D-sub) terminals D-----DVI, select signal from DVI terminals.



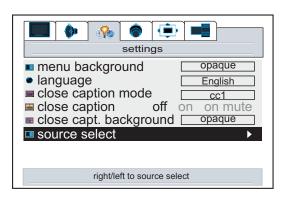
- C1-----YPbPr1/YCbCr1, select signal from YPbPr1/YCbCr1 terminals.
- C2-----YPbPr2/YCbCr2, select signal from YPbPr2/YCbCr2 terminals.
- AV -----VIDEO (SVIDEO), select signal from S-Video or Video terminal.
 - The S-Video is prior to Video terminal when they are connected at the same time.
- TV -----Select TV signal.

Note:

This unit identifies the type of component video terminals automatically. If you connect Y, Cb, Cr terminals, the screen displays **YCbCr detected** on the bottom-right corner. Similary, if the component video terminals are **Y**, **Pb**, **Pr**, the screen displays **YPbPr detected** on the bottom-right corner.

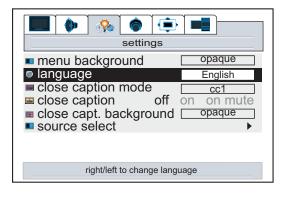
Using source select menu

- Press MENU to display the menu main
- Press VOL+/- to display settings menu page.
- Press CH repeatedly to select source select item.
- **4** Press **VOL+** to access **source select** menu.
- Press $CH \land$ or $CH \lor$ to select a desired input channel.
- Press ENTER to confirm and the unit displays signal from the selected input channel.



Selecting a MENU language

- Press **MENU** to display the menu main
- Press VOL+/- repeatedly to display settings menu page
- Press CH twice to select language item.
- **4** Press **VOL+/-** to select the appropriate language: English, French and Spanish.



Press MENU to exit.

Editing Channel Label

- Press **MENU** to display the menu main
- Press VOL+/- repeatedly to display options menu page
- 3 Press CH to select tv tuner item.
- 4 Press **VOL+** to enter.
- 5 Press VOL+again to display channel menu page.
- 6 Press CH to select edit labels item.
- 7 Press **VOL+** to enter into channel label editing mode.
- 8 Use CH ▲ / ▼ to select a channel you want add label to.
 Use ▲ / ▼ to select character.
 Use ◀ / ▶ to move cursor left or right.
 Use SOURCE ➡ to clear label text if you wish to reset.
 Use MENU to return.

options
tv tuner is content blocking is conte
select to activate tuner menu

-11 Channel	
■edit labels	•
select to edit channel labels	

channel up/down to up/down/left/right to source to clear labo menu to return	o edit label	

Setting Picture

Customizing the Picture

- Press **MENU** to display the menu main If the **picture** menu does not display, press **VOL+/**repeatedly to display **picture** menu page.
- 2 Press **CH** \land / \checkmark to select the item you wish to change.
- **3** Press **VOL+/-** to adjust the value of the item.
- 4 Press **MENU** to exit.

Image: A marked and a marked	picture			
 brightness contrast sharpness color tint 12 				
down for picture settings for current window				

Using the Preset Picture Mode

Press **P.M** on the remote to display **picture mode** select menu.

- 2 Press **VOL+/-** to select a desired picture mode.
- 3 Press MENU to exit.

There are three preset picture modes (**Normal**, **Bright** and **Soft**) and one user-set picture mode (**User**). Each preset mode has its own picture settings.

Normal: Select for a normal picture. Bright: Select for a bright picture. Soft: Select for a fine/soft picture.

Adjusted settings are stored in User

🔤 Picture mode	Normal
menu to return right/	left to adjust

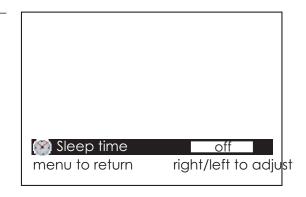
Setting the Menu Background

- Press **MENU** to display the menu main
- 2 Press VOL+/- to display settings menu page.
- 3 Press CH to select menu background item.
- 4 Press VOL+/- to select opaque or translucent.

Settings		
 menu background language close caption mode close caption off close capt. background source select 	translucent english cc1 on on mute opaque	
right/left to change menu background		

Setting Sleep Timer

- Press the **SLP** button to display **sleep time** menu.
- 2 Press VOL+/- to adjust.
- 3 Press **MENU** to exit.



Changing Screen Options

Changing the Scaling mode of Image

- Press **MENU** to display the menu main page.
- 2 Press VOL+/- to display window menu page.
- 3 Press CH to select image size item.
- 4 Press VOL+/- to select a proper image size.

The image size can be selected between: fill all, normal, wide and zoom.

Fill All

The Fill All mode stretches the input vertically and horizontally to fill the display from edge to edge. This mode is the default mode.

Normal

The Normal mode fills the display vertically with a 4:3 aspect picture, preserving the geometry of the input format.

Wide

The Wide mode only affects displays that are greater than 4:3 aspect. If the picture is less than or equal to 4:3, this mode acts as if it is in Normal mode. It is intended to display 4:3 images on a 16:9 panel with the least picture deformity. The center of the picture is left unstretched. The left and right sides of the picture are stretched in a non-linear fashion with the areas of greatest distortion on the extreme left and right edges of the picture. The top and bottom five percent of the picture are cropped.

Zoom

If the display aspect ratio is greater than 4:3, this mode fills the panel horizontally, cropping 10 percent off the top and bottom of the picture. If the display aspect ratio is less than 4:3, this mode crops the picture by 16.5 percent on all sides and fills the panel with the remaining picture.

Freezing the Picture

- Press **MENU** to display the menu main page.
- 2 Press VOL+/- to display window menu page.
- 3 Press CH repeatedly to select freeze window item.
- 4 Press VOL+/- to select on or off.

When you set this item to **on**, the current picture will be frozen until you set this item to **off**.

Note:

This menu item appears only when the current screen layout is full screen.

You can also quickly freeze current picture by using the **STILL** button.

Image size fill all Image size</td

window		
 image size fill all h position v position freeze window off on digital pan and zoom 		
right/left to change image size		

Changing the Position of the Image

The unit allows you to adjust the position of the image if it is not well-aligned.

- Press **MENU** to display the menu main page.
- 2 Press VOL+/- to display window menu page.
- 3 Press CH-repeatedly to select h position or v position
- 4 Press VOL+/- to adjust until the picture is well-aligned.

window		
■ image size fill all 50		
■ v position 50 ■ freeze window off on □ digital pan and zoom →		
right/left to adjust h position		

Using Digital Pan and Zoom

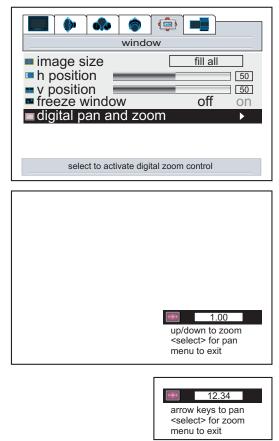
- Press **MENU** to display the menu main page.
- 2 Press VOL+/- to display window menu page.
- 3 Press CH-repeatedly to select digital pan and zoom
- 4 Press **VOL**+to enter.
- 5 Press $CH \land / \checkmark$ to adjust zoom ratio.

Note:

You can quickly access Zoom menu by using the **ZOOM** button. Digital pan and zoom are not always available.

The unit allows you to pan the picture after you zoom in the picture

- Repeat steps 1~5 above to zoom in the picture.
- 2 Press ENTER to access Pan mode.
- 3 Press VOL+/- or CH \wedge / \neg to pan the current picture in the relevant direction.



Setting Sound

Using the Preset Audio Mode



- 2 Press VOL+/- to display audio menu page.
- 3 Press CH to select Audio mode item.

4 Press VOL+/- to select a desired Audio mode. Note:

You can not access the **treble** and **bass** item unless the **Audio mode** is set to **User**.

Customizing the Sound

- Press **MENU** to display the menu main
- 2 Press **VOL+/-** to display **audio** menu page.

3 Press CH \wedge / \neg to select treble, bass or balance item.

4 Press VOL+/- to adjust the value of the item.

Using the S.M button

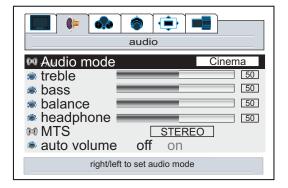
- Press **S.M** to display **Audio mode** select menu.
- Press VOL+/- to select a desired Audio mode.
- 3 Press **MENU** to exit.

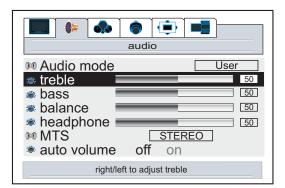
There are three preset Audio modes (**Cinema**, **Music** and **News**) and one user-set Audio mode (**User**). Each preset mode has its own Audio settings. **Cinema**: Select for a movie program picture. **Music**: Select for a music program. **News**: Select for a speech or conversation program. Adjusted settings are stored in User mode.

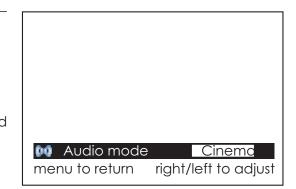
Adjusting the Headphone Volume

- Press MENU to display the menu main
 Press VOL+/- to display audio menu page.
- 3 Press CH repeatedly to select headphone item.
- 4 Press VOL+/- to adjust the volume of headphone.

		(
	audio					
 Audio mode Cinema treble bass balance headphone 50 						
MTS <u>STEREO</u> auto volume off on						
right/left to adjust headphone						







Choosing a Multi-Channel Sound (MTS) Soundtrack

Press **MENU** to display the menu main page.

- 2 Press VOL+/- to display audio menu page.
- 3 Press **CH** repeatedly to select **MTS** item.
- 4 Press VOL+/- to select STEREO, SAP or MONO.

Choose STEREO for channels that are broadcasting in stereo.

Choose **MONO** for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.

Choose **SAP** to listen to the Separate Audio Program, which is usually a foreign-language translation of a program.

Using the MTS 💿 button

Press the **MTS** button to access **MTS** setting menu.

- 2 Press VOL+/- to select STEREO, SAP or MONO.
- 3 Press MENU to exit.

STEREO
right/left to adjust

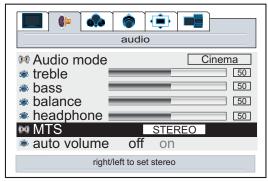
Using the Auto Volume

 Δ Press VOL+/- to select on or off.

Each broadcasting station has its own signal conditions, which can make it necessary to adjust the volume every time the channel is changed. "Auto volume" lets you automatically adjust the volume of the desired channel by lowering the sound output when the modulation signal is high or by raising the sound output when the modulation signal is low.

1	Press	MENU to display the menu main page.
2	Press	VOL+/- to display audio menu page.
3	Press	CH - repeatedly to select Auto volume item.

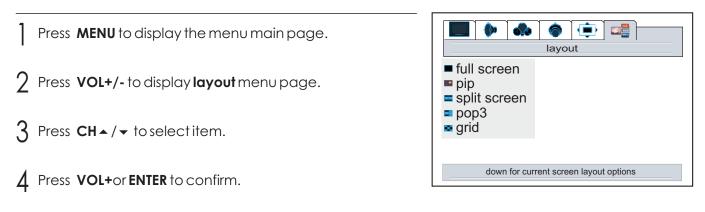
iiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiiii		
 Audio mode treble bass balance headphone MTS STEREO 		
auto volume off on		
right/left to set auto volume		



Changing Screen Layout

Selecting Screen Layout

Using the Layout Menu

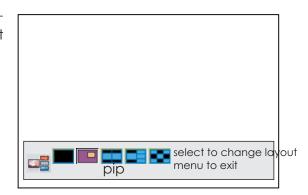


Using the MODE button

Press the **MODE** button to display the **screen layout** select

2 Press VOL+/- to select item.

- 3 Press ENTER to confirm.
- 4 Press **MENU** to exit.



Full Screen

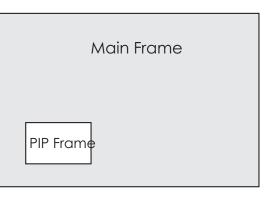
When this item is selected, only main frame displays on the screen.



Changing Screen Layout (continued)

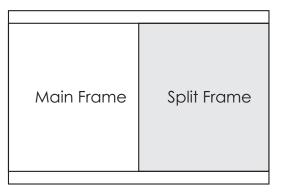
PIP

When this item is selected, one main frame and one PIP frame display on the screen at the same time.



Split Screen

When this item is selected, the screen will be split into two frames.



POP3

When this item is selected, one main frame and three scanning frames display on the screen.

	2
Main Frame	3 Scanning Frame
	4

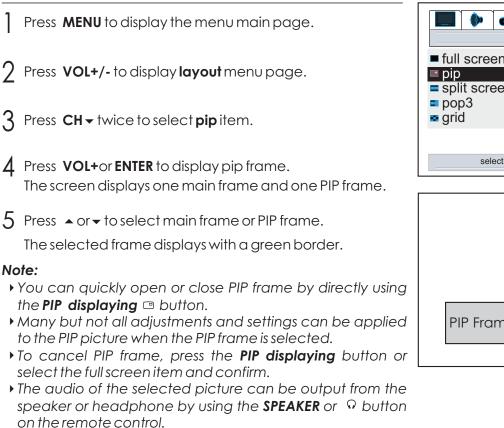
Grid

When this item is selected, the screen displays 9 scanning frames.

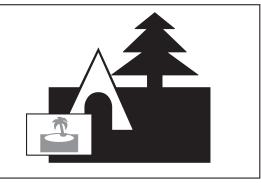
1	2	Scanning ³ Frame
4	5	6
7	8	9

PIP Operations

Viewing the Picture-in-Picture

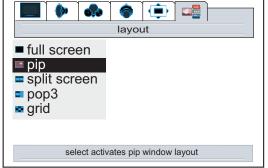


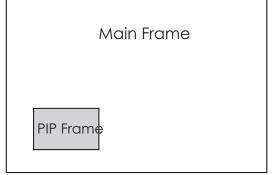
Swap the Contents of the PIP Image and Main Image



Press the SWAP button to swap the contents of the PIP image and main image.







Changing the Position of the PIP Frame

- With the PIP frame displaying, press **MENU** to display the menu main page.
- 2 Press VOL+/- to display window menu page.
- 3 Press CH repeatedly to select pip position item.
- 4 Press VOL+/- to select a desired position for the PIP frame.

Using the **POS** button

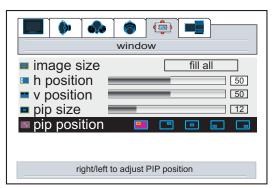
- Press the **POS** button to quickly access the **pip position** select menu.
- Press **VOL+/-** to select a desired position for the pip frame.
- $\overline{3}$ Press **MENU** to exit.

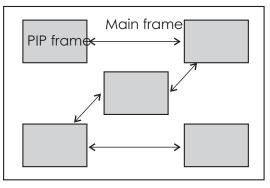
Adjusting the Size of PIP Frame

- With the PIP frame displaying, press **MENU** to display the menu main page.
- 2 Press VOL+/- to display window menu page.
- 3 Press CH repeatedly to select pip size item.
- 4 Press VOL+/- to adjust the size of PIP frame.
- 5 Press MENU to exit.

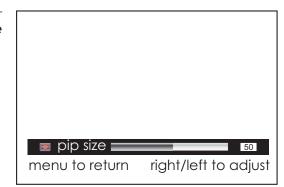
Using the **SIZE** button

- Press the **SIZE** button to quickly access the **pip size** adjusting menu.
- Press **VOL+/-** to adjust the size of the pip frame.
- 3 Press **MENU** to exit.





	i i i i i i i i i i i i i i i i i i i	
 image size h position v position pip size pip position 	fill all 50 50 12	
right/left to adjust PIP size		



Adjustment in PC (VGA) Mode

With working in VGA mode, this unit allows you to perform several adjustments.

Adjusting Picture

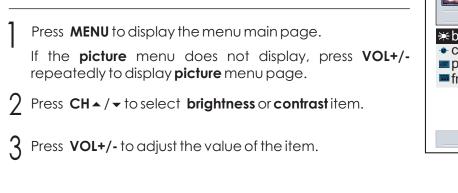
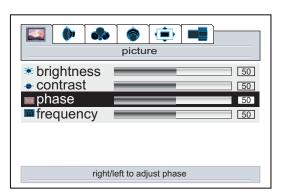


image: system of the system of th

Adjusting the Phase and Frequency

Press **MENU** to display the menu main page. If the **picture** menu does not display, press **VOL+/**repeatedly to display **picture** menu page.

- Press CH / + to select phase or frequency item.
- 3 Press VOL+/- to adjust the value of the item.
- 4 Press **MENU** to exit.



You may find that images blur, depending on the clock phase of your PC's Processor. If you experience blurring ,

you can obtain a clearer image by adjusting the phase setting.

Adjust the clock frequency of the set's internal clock signal. If shimmering or rainbow-like noise is apparent in

the image, try adjusting the frequency setting.

Adjusting the Picture Automatically

If you are not satisfied with the picture, you may quickly adjust the picture by using the **AUTO** button. After the **AUTO** button is pressed, the message "**Auto running**" appears on the screen and the picture adjustments are automatically activated.

Changing the Scaling mode of Image

- Press MENU to display the menu main
- 2 Press VOL+/- to display window menu page.
- 3 Press CH to select image size item.
- Press VOL+/- to select fill all or Normal. Δ

6 ٩ \sim window 🔤 image size fill all h position 50 v position 50 freeze window off on digital pan and zoom • right/left to change image size

5 Press **MENU** to exit.

> Fill All---this mode stretches the input vertically and horizontally to fill the full screen. This mode is the default mode.

Normal----this mode displays the incoming picture with normal ratio.

Changing the Position of Image

After connecting the unit to your PC, adjust the position of the screen if it is not well-aligned.

1	Press MENU to display the menu main
2	Press VOL+/- to display window menu page.
3	Press $CH \land / \checkmark$ to select h position or v position item.
4	Press VOL+/- to adjust the value of the item until the screen is well-aligned.
5	Press MENU to exit.

window					
 image size h position 	fill all 50				
v position	off on				
right/left to adjust h position					

Displaying the Information

When the DSP button is pressed in PC (VGA) mode, the unit displays some information such as the vertical frequency and resolution.

Adjustment in YPbPr Mode

Changing the Scaling mode of Image

- **)** Press **MENU** to display the menu main page.
- 2 Press VOL+/- to display window menu page.
- 3 Press CH \rightarrow to select image size item.
- 4 Press VOL+/- to select fill all or Normal.
- 5 Press **MENU** to exit.

2 (**D**) 0 window 🔤 image size fill all h position 50 v position 50 freeze window off on digital pan and zoom 50 ➡ h wide v high 50 right/left to change image size

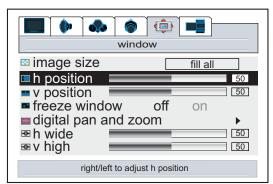
Fill All---this mode stretches the input vertically and horizontally to fill the full screen. This mode is the default mode.

Normal---this mode displays the incoming picture with normal ratio.

Changing the Position of Image

After connecting the unit to your device, adjust the position of the screen if it is not well-aligned.

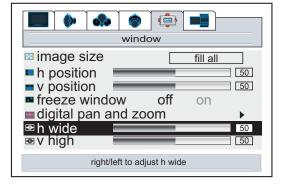
-] Press **MENU** to display the menu main
- 2 Press VOL+/- to display window menu page.
- 3 Press CH </ > to select h position or v position item.
- 4 Press **VOL+/-** to adjust the value of the item until the screen is well-aligned.



5 Press **MENU** to exit.

Adjusting Image width and height

-] Press Menu to display the menu main
- 2 Press VOL+/- to display window menu page.
- 3 Press $CH \land / \checkmark$ to select h wide or v high item.
- 4 Press VOL+/- to adjust the value of the item.
- 5 Press Menu to exit.



Viewing Closed Captions

The unit decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes can also provide closed captions. Most prerecorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging:

Note:

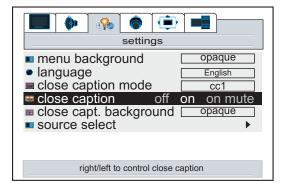
The Caption feature works in TV mode only.

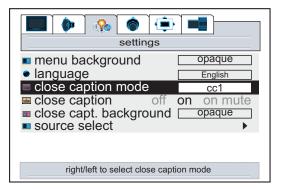
Not all the programs and videos will offer closed captioning. Please look for the 🖾 symbol to ensure that captions have been provided.

Setting Closed Caption

- Press **MENU** to display the menu main page.
- 2 Press VOL+/- to display settings menu page.
- 3 Press CH repeatedly to select close caption item.
- A Press VOL+/- to select off, on or on mute item.
 - Off---Turn off the closed caption. If you select off, the close caption mode and close capt. background can not be accessed.
 - **On**---Turn on the closed caption.
 - On Mute---Turn on the closed caption when mute. If you select on mute, the close caption mode and close capt. background can not be accessed unless you mute the sound.
- 5 Press CH to select close caption mode item.
- 6 Press VOL+/- to select a desired mode.

You can select between **cc1**, **cc2**, **t1**, **t2**, **cc3**, **cc4**, **t3** and The Closed Caption broadcasts can be viewed in two modes: CAPTION and TEXT. For each mode, four channels





The [CAPTION] mode shows subscripts of dialogues and commentaries of TV dramas and news programs while allowing a clear view of the picture.

The [TEXT] mode displays various information over the picture (such as TV program schedule, weather forecast, etc.) that is independent of the TV programs.

Setting the Background of Closed Caption

- Press **MENU** to display the menu main page.
- 2 Press VOL+/- to display settings menu page.
- Press **CH** repeatedly to select **close capt. background** item.
- 4 Press VOL+/- to select opaque or transparent.

settings					
menu background opaque					
language English					
■ close caption mode <u>cc1</u>					
close caption					
close capt. background opaque					
source select					
right/left to select close caption background					

V-CHIP

This function allows TV programs to be restricted and TV usage to be controlled based on FCC data. It prevents children from watching violent or sexual scenes that may be harmful.

Restriction of TV programs includes two ratings that contain information about the program: the MPAA rating and the TV Parental Guidelines. The MPAA rating is restricted by age. TV Parental Guidelines are restricted by age and content.

Since a TV program may use either the MPAA rating or the TV Guidelines, both should be adjusted for complete control.

[1] Movie Rating (MPAA)

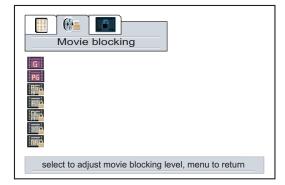
Rating		
	G	GENERAL AUDIENCES. All ages admitted.
	PG	PARENTAL GUIDANCE SUGGESTED. Some material may not be suitable for children.
	PG-13	PARENTAL STRONGLY CAUTIONED. Some material may be inappropriate for children under 13.
age based	R	RESTRICTED. Under 17 requires accompanying parent or adult guardian.
	NC-17	NO ONE 17 AND UNDER ADMITTED.
	Х	X Rating is an older rating that is unified with NC-17 but may be encoded in the data of older movies.
	NR	NOT RATED.

Note:

The Movie rating is only agebased.

Example 1:

"PG-13" in the age based rating is blocked, this will automatically block the higher ratings "R", "NC-17", "X" also.



Example 2:

"R" in the age based rating is blocked, this will automatically block the higher rating "NC-17", "X" also.

Movie blocking
G PG ÇG
select to adjust movie blocking level, menu to return

Adjusting V-CHIP Settings (continued)

[2] TV Parental Guidelines

Rating		content based				
		D	L	S	V	FV
	TV-Y (All children)	×	×	×	×	×
	TV-Y7 (Direct to Older Children)	Х	×	×	×	•
based	TV-G (General Audience)	Х	×	×	×	
	TV-PG (Parental Guidance	٠	•	٠	•	
	Suggested)	٠	•	٠	•	
	TV-14 (Parents Strongly		•	•	•	

× —— Content Rating can be set but this Rating is not normally broadcast by TV Station.

• —— Content Rating can be set.

D: Sexually Suggestive Dialog L: Adult Language S: Sexual Situation V: Violence FV: Fantasy Violence

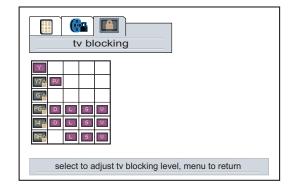
Note:

Age-based ratings can be modified by the content-based ratings but only in the combinations indicated by an ●in the table above.

Choosing lower age-based rating blocks the higher age-based ratings regardless of content ratings settings.

Example 1:

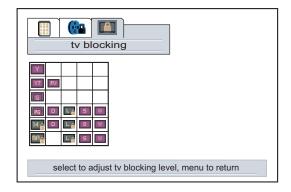
When TV-Y7 in the age-based rating is set to BLOCK, this will automatically block the higher ratings: TV-G, TV-PG, TV-14 and TV-MA.



Example 2:

When TV-14 in the age-based rating is set to BLOCK, this will automatically block the higher ratings: TV-MA.

In addition, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.



Adjusting V-CHIP Settings (continued)

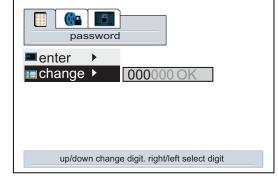
Accessing the V-CHIP Menu

1	Press MENU to display the menu main page.	options
2	Press VOL+/- to display options menu page.	. ↓ tv tuner A content blocking
3	Press CH - to select content blocking item.	
4	Press VOL+ or ENTER to display password menu page.	select to activate content blocking menu
5	Press CH-to select enteritem.	
6	Input the password and highlight OK .	password
-	Use VOL+/- to move password digit leftward or rightward. Use CH / + to select character for password.	■ enter
	The default password is 000000 , you may change the password yourself.	
7	Press ENTER to access the V-CHIP menu.	
	The unit allows you to access the V-CHIP menu if you input the right password, or you will be denied.	up/down change digit. right/left select dig
С	hanging the Password	

From the **password** menu page, press **CH** + to select **change** item.

2 Input a new password and highlight **OK**.

Use VOL+/- to move password digit left or right. Use $CH \land / \checkmark$ to select character for new password.

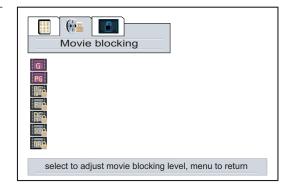


3 Press ENTER to confirm.

Be sure to write down your password and retain it for future use.

Adjusting the Movie Rating

- Repeat steps 1~7 in [Accessing the V-CHIP Menu].
- 2 Press the **MENU** button.
- Press VOL+/- to display movie blocking menu page.
- 4 Press $CH \land / \lor$ to select a rating to be blocked.
- 5 Press ENTER to confirm and MENU to return.



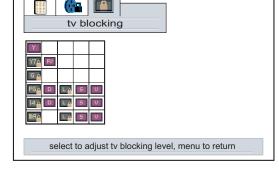
"PG-13" in the age-based rating is blocked, this will automatically block the higher ratings "R", "NC-17", "X" also.

How to unblock a Movie Rating

If you want to unblock a movie rating, please repeat steps $1\sim3$ in [Adjusting the Movie Rating] and use CH \wedge / \neg to select a blocked movie rating, then press ENTER to confirm.

Adjusting the TV Rating

- Repeat steps 1~7 in [Accessing the V-CHIP Menu].
- **2** Press the **MENU** button.
- **3** Press **VOL+/-** to display **tv blocking** menu page.
- 4 Press $CH \land / \lor$ or VOL+/- to select an age or content rating to be blocked.



5 Press ENTER to confirm and MENU to return.

When TV-Y7 in the age-based rating is set to BLOCK, this will automatically block the higher ratings: TV-G, TV-PG, TV-14 and TV-MA. In addition, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

Note:

Since a TV program may use either the MPAA rating or the TV Guidelines, both should be adjusted for complete control.

How to unblock a TV Rating

If you want to unblock a TV rating, please repeat steps $1 \sim 3$ in [**Adjusting the TV Rating**] and use **CH** \wedge / \neg or **VOL+/-** to select a blocked TV rating (including age rating and content rating), then press **ENTER** to confirm.

Before calling for repair service, check the following items for possible remedies to an encountered symptom.

Symptoms	Check item		
"Ghost" or double images	This may be caused by obstruction to the antenna due to high rise buildings or hills. Using a highly directional antenna may improve the picture.		
No power	 Check that the AC power cord is plugged into the mains socket. Unplug the power cord, wait for 60 seconds. Then re-insert plug into the mains socket and turn on the unit again. 		
No picture	 Check antenna connections at the rear of the unit to see if it is properly connected to the unit. Possible broadcast station trouble. Try another channel. Adjust the contrast and brightness settings. Check the Closed Captions control. Some TEXT modes could block the screen. Select a correct input. Is a non-compatible signal being used? 		
Good picture but no sound	 Increase the VOLUME. Check that the unit is not muted. Check Whether the sound is output to headphone 		
Good sound but poor color	 Adjust the contrast, color and brightness settings. 		
Poor picture	Sometimes, poor picture quality occurs when having activated an S-VHS camera or camcorder connected and having connected another peripheral at the same time. In this case, switch off one of the other peripherals. Check whether the room is too bright		
Horizontal dotted line	 This may be caused by electrical interference (e.g. hairdryer, nearby neon lights, etc.) Turn off the equipment. 		
Television not responding to remote control	 Check whether the batteries are working. Replace if necessary. Clean the remote control sensor lens on the unit. Do not use the remote control under strong or fluorescent lighting. The batteries should be inserted with polarity (+, -) aligned. 		
Snowy picture and noise	Check the antenna connection.		
No stable or notCheck if you have selected the correct VGA modesynchronized VGA picturePC.			
No output from one of the speakers	Adjust Balance in the audio menu.		

Note:

If your problem is not solved, restart your TV by turning it off and then on using the POWER SWITCH.

Never attempt to repair a defective TV yourself.

Specifications:

Model Number: AR4200	1		Features	
UPC number: 0-44476-01943-2		EDTV Ready		
Display Spe	cs	Progressive scan display		
Display type	Plasma	High Contrast Ratio		
Screen Size	42" (diagonal)	High Brightness (Cd/m²)		
Aspect Ratio	16:9 aspect	3D Digital Comb Filter		
Resolution (native)	852 (H) x 480 (V)	,		
Active Area	36.73 inches (H) x 20.98 inches (V)	Picture in Picture (PIP) / Split screen / POP3 / Grid		
Brightness *	640Cd/m² (Avg)	Parental Control with	V-Chip	
Contrast ratio *	1000:1 aspect (Avg) 160/160	Closed Captions (CC) MTS - SAP / Stereo /	Mana	
Viewing Angle Dot Pitch	1.095 x 1.110mm		Mono	
Maximum Color	16,777,216	Sleep (Power/OFF) Model Specific Remot	2	
MTBF Value***	30,000hours (8Hr/Day)	Wall mounting bracke		
TV Receptio		User friendly OSD Me		
TV System	NTSC		or Translucent background	
Channel	181 Channel Cable/Air	181 Channel Cable/Ai		
Antenna Impedance	VHF-L, VHF-H, UHF 75 Ohm	Personal Computer (PC) support (VGA 15 pin D-St		
Connector type	Coax F-Connector	2 sets of component i	<u>, , , , , , , , , , , , , , , , , , , </u>	
Audio		On Screen Audio Equalizer		
Maximum Audio Output	10watt x 2ch	No Cooling fans		
Audio Output connection	spring clips	Screen Mode (normal 4:3, Wide 16:9, zoom, fill all)		
Total number of speakers included	0	Preset Auto and Vide	o settings	
Connections	Quantity		Power	
RF: TV/CATV 75ohms coaxial	1	Power Source	AC100V-240V, 60/50Hz	
Composite Video input	1	Unit input power	AC100V-240V, 60/50Hz	
S-Video input (4pin DIN)	1	Pow er ON consumption	400W	
L/R Audio for Composite/S-Video input	1 (RCA)	Standby consumption	5W	
Component input (Y,Pb/Cb,Pr/Cr)	2 (480i/p, 720p**, 1080i**)	Dime	nsion (W x H x D)	
Component audio input jack	2 (3.5mm)	Unit W/stand	41.3 x 28.9 x 11.4 inches	
VGA input15 pin D-Sub	1 (640x480)	Unit W/O stand	41.3 x 25.5 x 3.2 inches	
VGA audio input jack	1 (3.5mm)		Weight	
DVI-D input	1 (not intended for PC use)	Unit W/Stand	81.4lbs	
DVI audio input jack	1 (3.5mm)	Unit W/O Stand	70.4lbs	
Headphone:mini stereo jack	1 (3.5mm)	G.W. Carton	99.0lbs	
Composite Video output	1	Er	vironment	
L/R Audio for Composite output	1 (RCA)	Operating Temperature	0 to 50	
RS232	1 (Service only)	Operating Humidity	20 to 80% RH	
Video Standards s	upported	Storage Temperature	-55 to 60 p	
Composite Video input	NTSC	Storage Humidity	20 to 80% RH	
Composite Video output	NTSC		Warranty	
S-Video Input	NTSC	Parts and Labor	1 Year	
RF	NTSC	* - measured at peak ** - signal dow n-converter *** - Based on brightness	d to native resolution at 50 percent, (Average time)	

 Display Format Supported by This Unit

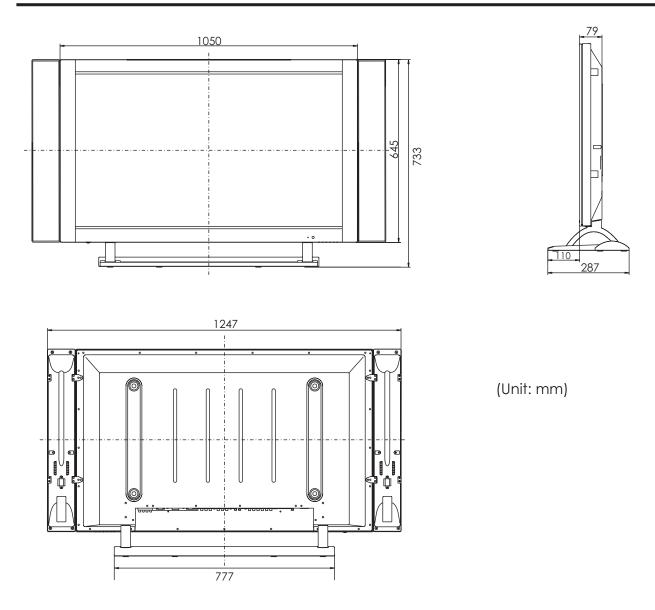
 For VGA: 640X480 @ 60Hz,72Hz,75Hz,85Hz;
 800X600 @ 60Hz,72Hz,75Hz,85Hz;

 1024X768 @ 60Hz,75Hz,85Hz;
 800X600 @ 60Hz,72Hz,75Hz,85Hz;

 For YPbPr: 480P @ 50Hz, 59Hz, 60Hz;
 720P @ 50Hz, 59Hz, 60Hz;

 1080i @ 50Hz, 59Hz, 60Hz.
 1080i @ 50Hz, 59Hz, 60Hz.

Dimensional Drawings



Design and specifications are subject to change without notice.